

## **CERES Systems Engineering Committee**

Members: Maria Mitchum, NASA, DMO  
Sandy Nolan, SAIC  
Jill Travers, DAAC

Charter: Serve as a forum for resolving issues which affect more than one working group. Report to CERES Data Management Team

**January 6, 1998 1:00 pm**

The committee discussed the following system issues:

The leapsec and utcpole files from the toolkit only need updating twice a week. This is because the files from the Naval Observatory used to create this files only get updated twice a week. There still may be some issues to resolve about processing using predicted data.

The Toolkit will be named as follows scf\_toolkitn.n.n.n\_f90 where n.n.n.n represents the toolkit version such as 5.2.1.L1 (L1 for Langley update 1). This is to maintain consistency with ECS. CERES has said this naming convention is okay although the Toolkit Version in the PCF file is not consistent since the Langley specific updates would not be included.

Jill brought up the following issues relating to consistency among subsystem deliveries:

1. The need for everyone to deliver an ascii input file generator and a pcf generator. The ascii input file should be used as input to the PCF generator. Also the pcf generator should be outside the PGE runscript. Sandy will update the Appendix of the PCF generator software bulletin to provide a sample ascii file generator.
2. The need for all Subsystems to expect input from the previous subsystem from previous subsystems output directory. For example, ERBELike expects the PRES8 files to be in /CERES/erbelike/data/out\_exp/data/input. The directory out\_exp was intended for expected output results for testing only and not for production. ERBELike should retrieve the data from /CERES/instrument/data/out\_comp.
3. The need for all Subsystems to have unique PCF and Log file names between runs such that these files don't get overwritten. Some subsystems such as subsystem 1 allow the DAAC operations staff to name the created PCF file. The naming convention used to date is instr1-ql-1998-01-07T20-40-56.pcf for quicklook data and instr1-lz-1998-01-11.pcf for Level 0 data runs. The committee will recommend a naming scheme for the PCF and Log Files.
4. Log files should be in a consistent directory location. Toolkit logfiles should be in the "data/run-logs" directory location.
5. The need for the .met files to contain the path and file name for each input file. After the meeting Jill checked the current .met files and the file names are included for the ancillary data. Paula Detweiler should be consulted about what the concern is.
6. Scripts called from within the main script should use the -f option on the #!/bin/csh line to suppress

sourcing the .cshrc file. This will prevent environment variables from being resourced.

7. All subsystems should consistently use exit codes. Information about the exit code is captured by CODINE however it is useful in the current operations mode to write the exit code to the LogStatus File or to the screen to be captured by CODINE for the operations staff to review.

Sandy will draft a software bulletin to discuss these issues.

All subsystems will switch to toolkit 5.2.1 beginning with the CERESlib delivery on 1/16/98.

Maria has requested that a representative from the DAAC Product Generation Group come to the CERES SE meetings for status updates. Paula Detweiler will be the primary representative.

Meeting adjourned 2:35. djt.

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**January 13, 1998 1:00 pm**

The minutes from January 6 were revised, and will be sent out again.

The committee discussed the following system issues:

The Toolkit Versioning Scheme for Langley updates and patches to the Toolkit (TK) will be maintained by the DAAC. It was suggested that:

- The DAAC create and maintain a WWW page with the Toolkit updates, the version assigned and the date and time that the TK was updated.
- The new TK version update announcement should be emailed to all Subsystem Leads.

The second week in March has been designated as the target date for the SSI&T procedure to start for the ECS Version 2 Drop 3 Processing System. The AM1 code will need to be ready to deliver by then. A delivery schedule will be set up in early February for these deliveries.

Jill will ask Tom Atwater, ECS, about using Product Specific Attributes, PSA, in the Production Generation Database and further if we can use them in the Production Rules for a PGE.

Jill mentioned that file creation calls to the Toolkit should use 'status=new' to create and write a file, in order to insure that new files are created and old files are not overwritten.

Lee-hwa Chang will be reminded to use the Instrument CC# in her PCF for her input files and her own CC# for her output files.

Maria will meet with Chris Harris and DAAC personnel on file name duplications which may occur during reprocessing.

Sandy will ask Lee-hwa to append datadate to log files and PCF file, for the present, until these file names have been standardized by this committee.

The committee put together a preliminary proposal for the naming of the log files and the PCF file as follows:

FileType\_PGName\_outSS\_outPS\_CCode#.Instance

where:

FileType	Description
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LogStatus	Log Status file for TK
LogReport	Log Report file for TK
LogUser	Log User file for TK
PCF	PCF file

and:

PGEName = PGEName assigned to the PGE  
outSS = OutputSamplingStrategy  
outPS = OutputProductionStrategy  
CCode# = ConfigurationCode#  
Instance = the date, time, and/or file identification which uniquely  
          identifies the major Output Data

Examples:

LogStatus\_4.5-6.1P1\_TRMM-PFM-VIRS\_AtLaunch\_00000.1998011408  
LogReport\_4.5-6.1P1\_TRMM-PFM-VIRS\_AtLaunch\_00000.1998011408  
LogUser\_4.5-6.1P1\_TRMM-PFM-VIRS\_AtLaunch\_00000.1998011408  
PCF\_4.5-6.1P1\_TRMM-PFM-VIRS\_AtLaunch\_00000.1998011408

These will be sent to the Subsystem Leads for their assessment.

Meeting adjourned 2:45 mvm